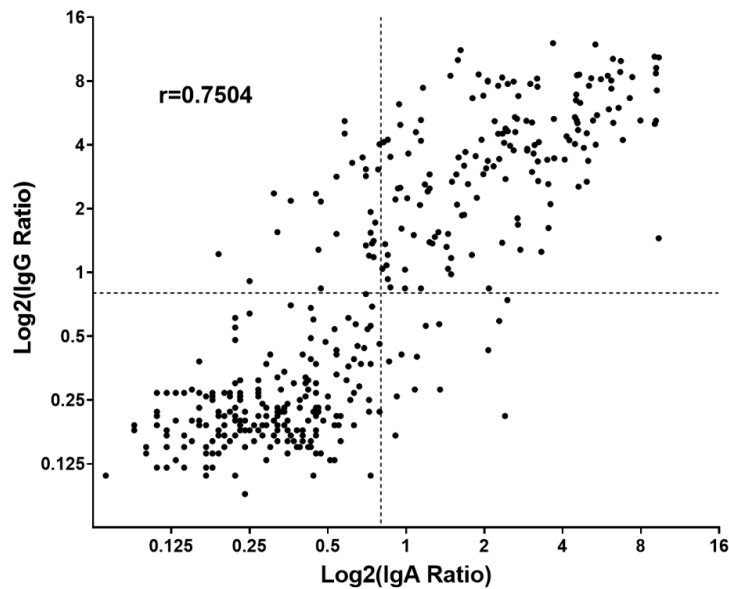
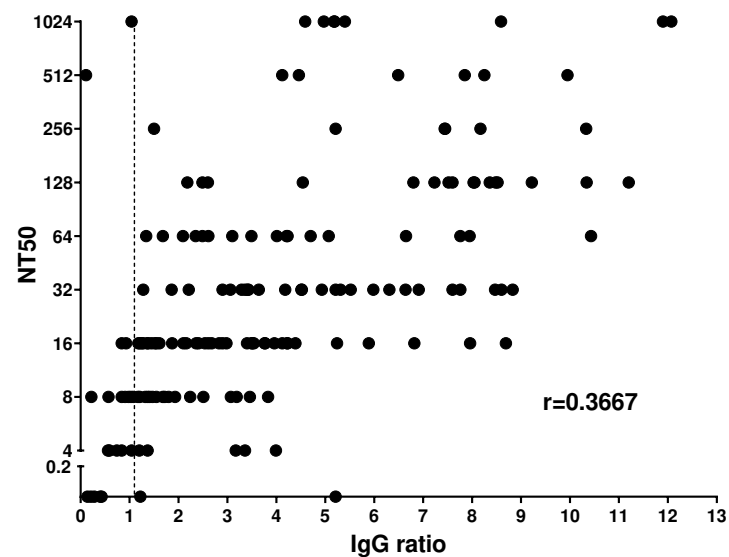


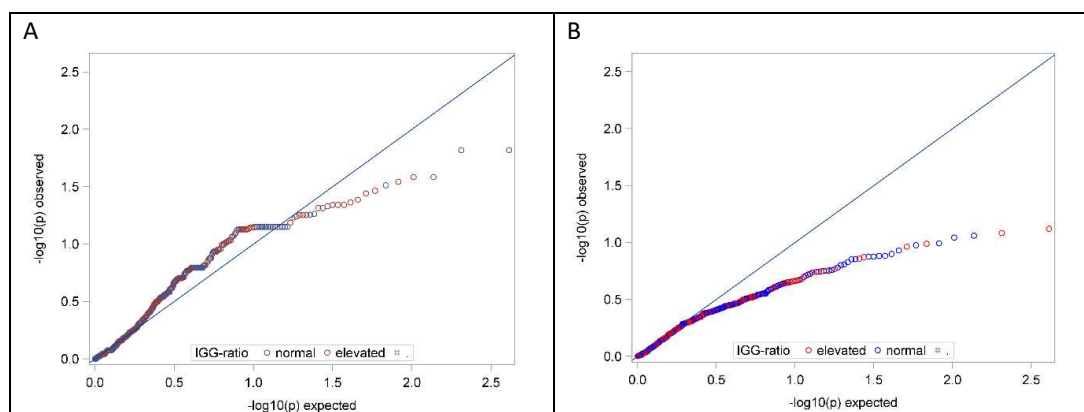
Supplementary Material



Suppl. Fig. 1: Correlation of SARS-CoV-2 Euroimmun ELISA results for IgA and IgG. The correlation of IgA levels to IgG levels in the same person was significant (r : Pearson coefficient, $p<0.0001$, 95 % CI, 0.7043 to 0.7902). The dotted lines mark the ratios above which each ELISA result is considered positive.



Suppl. Fig. 2: Correlation of plasma neutralization capacity and IgG ELISA results (Euroimmun) from each donor. The dotted line marks the ratio above which the ELISA result is considered positive. The correlation coefficient (Pearson) was 0.3667 (95 % CI, 0.2275 to 0.4192, $p<0.0001$). Samples with a negative result in the neutralization assay were set as 0.1 here so as to appear on the logarithmic axis.



Supplemental Figure 3: Quantile plot of observed p-values from analyses of inverse distance [1/m] to single specific study participants as risk factor for corona-virus infection. In case of no association, the ordered log-transformed p-values are expected to lie on, or below the diagonal. Panel A: results from crude analyses, Panel B: analyses were adjusted for age, sex, common household and duration of attendance.

	OR	95% confidence interval		p-value
proximity to infected persons [sum 1/m]	0,99	0,98	1,01	0,430
adjusted a)	1,00	0,98	1,02	0,957
mutually adjusted b)	0,99	0,97	1,01	0,571
mutually adjusted c)	0,99	0,97	1,02	0,646
Alternative consideration in distance-bands				
Infected persons within ≤1.5m [count]	1,01	0,96	1,07	0,681
Infected persons in 1.5 - ≤3m [count]	0,96	0,92	1,00	0,043
Infected persons in 3 - ≤4.5m [count]	1,03	1,00	1,06	0,023
Infected within ≤1.5m [count] adjusted a)	1,03	0,97	1,10	0,366
Infected in 1.5 - ≤3m [count]	0,96	0,92	1,01	0,113
Infected in 3 - ≤4.5m [count]	1,03	1,00	1,06	0,083
Infected within ≤1.5m [count] mutually adjusted b)	1,01	0,95	1,07	0,734
Infected in 1.5 - ≤3m [count]	0,98	0,94	1,02	0,359
Infected in 3 - ≤4.5m [count]	1,05	1,02	1,08	0,001
Infected within ≤1.5m [count] mutually adjusted c)	1,02	0,95	1,09	0,638
Infected in 1.5 - ≤3m [count]	0,98	0,93	1,03	0,363
Infected in 3 - ≤4.5m [count]	1,04	1,00	1,07	0,041

Supplementary table 1: Estimated relative risk of SARS-CoV-2 infection (IGG-positive) from logistic regression on summary measures of spatial proximity between participants in terms of odds ratio estimates (OR) with confidence interval and p-values. a) adjusted for sex, age, common household and duration. b) multivariate analysis, mutually adjusted for distance to ventilation system, participation in (multiple) performances, going out of doors during the intermission, and participating in the grand finale. c) multivariate analysis, mutually adjusted for distance to ventilation system, participation in (multiple) performances, going out of doors during the intermission, and participating in the grand finale and adjusted for sex, age, common household and duration.